

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions and listing of claims in the application.

Claims 1-20 (Canceled)

21. (Currently Amended) A functional food or functional feed composition comprising a resistant starch obtained by retrogradation of a water-insoluble linear α -1,4-D-glucan including heating to 50 °C – 100 °C and retrograding at 35 °C to freezing point, said polyglucan being produced by the action of amylosucrase acting on sucrose, the composition further comprising at least one further food additive or feed additive.

22. (Previously Presented) The composition as claimed in claim 21, wherein the food additive or feed additive is selected from the group consisting of probiotics, prebiotics, vitamins, provitamins, antioxidants, oils, fats, fatty acids, and mixtures thereof.

23. (Previously Presented) The composition as claimed in claim 22, wherein the probiotic is a bifido bacterium.

24. (Previously Presented) The composition as claimed in claim 21, wherein the resistant starch acts as a carrier material for the food additive or feed additive.

25. (Previously Presented) The composition as claimed in claim 21, wherein the resistant starch is present in the form of microparticles with a mean diameter of 1 nm to 100 μ m.

26. (Previously Presented) The composition as claimed in claim 21, wherein the food additive or feed additive is at least in part enrobed by the resistant starch.

27. (Previously Presented) The composition as claimed in claim 21, wherein the water-insoluble linear α -1,4-D-glucan has a molecular weight of from 0.75×10^2 to 10^7 g/mol.

28. (Previously Presented) The composition as claimed in claim 21, wherein the water-insoluble linear α -1,4-D-glucan has a molecular weight of from 10^3 to 10^6 g/mol.

29. (Previously Presented) The composition as claimed in claim 21, wherein the water-insoluble linear α -1,4-D-glucan has a molecular weight of from 10^3 to 10^5 g/mol.

30. (Previously Presented) The composition as claimed in claim 21, wherein the water insoluble linear α -1,4-D-glucan is obtained by in vitro polymerization of glucose in the presence of an enzyme having amylosucrase activity.

31. (Previously Presented) The composition as claimed in claim 21, wherein the composition is a foodstuff, a foodstuff precursor or a foodstuff supplement.

32. (Currently Amended) A medicament comprising a resistant starch obtained by retrogradation of a water-insoluble linear α -1,4-D-glucans including heating to 50 °C – 100 °C and retrograding at 35 °C to freezing point, said polyglucan being produced by the action of amylosucrase acting on sucrose, and wherein the resistant starch contains no phosphorous.

33. (Previously Presented) The medicament as claimed in claim 32, wherein the medicament is a gastrointestinal composition.

34. (Currently Amended) A pharmaceutical or veterinary composition comprising a resistant starch obtained by retrogradation of a water-insoluble linear α -1,4-D-glucans including heating to 50 °C – 100 °C and retrograding at 35 °C to freezing point, said polyglucan being produced by the action of amylosucrase acting on sucrose, and wherein the resistant starch contains no phosphorous.

35. (Previously Presented) The composition as claimed in claim 34, further comprising a functional additive.

36. (Previously Presented) The composition as claimed in claim 35, wherein the functional additive is a food additive or feed additive.

37. (Previously Presented) The composition as claimed in claim 36, wherein the food additive or feed additive is a probiotic.

38. (Previously Presented) The composition as claimed in claim 37, wherein the probiotic is a bifido bacterium.

39. (Previously Presented) The composition as claimed in claim 35, wherein the functional additive is a medicinal compound.

40. (Previously Presented) The composition as claimed in claim 39, wherein the medicinal compound is a therapeutic agent.

41. (Currently Amended) A method of treating or preventing gastrointestinal disorders comprising administering an effective amount of a medicament comprising a resistant

starch obtained by retrogradation of a water-insoluble linear α -1,4-D-glucans including heating to 50 °C – 100 °C and retrograding at 35 °C to freezing point, said polyglucane being produced by the action of amylosucrase acting on sucrose, and wherein the resistant starch contains no phosphorous.